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(71) 出願人

593131426  
伊藤 安男

岩手県上閉伊郡大槌町本町3番1号

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(72) 発明者

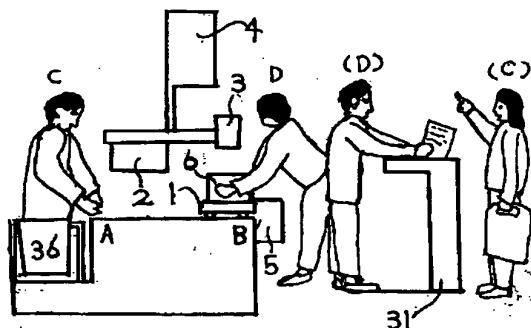
伊藤 安男  
岩手県上閉伊郡大槌町本町3番1号

(54) 【発明の名称】 多機能ゲーム装置を備えたキャッシュレジスタ装置

(57) 【要約】 (修正有)

【課題】 ゲームでの得点に対する賞品の提供を広告主にさせる宣伝装置をゲームに合体させて宣伝画面で得点発表させる宣伝効果を誘導させた受付業務で利益を生じさせて監視要員の作業を効率化させる。

【解決手段】 受付で計量した商品総重量情報に一致させるように登録時の商品重量を計量装置1に商品6を乗置させて計量させ、A点からB点の走行中に登録機構2によって読み走査を行い、この実行がエラーした場合に計量装置1の折返しB点で停止させて、係員を呼出し対応部5で処理させるレジスター構成と、この計量装置の発進に反応してゲーム駆動するゲーム装置と宣伝装置の合体部4を設け、ゲーム得点での当選発表を宣伝画面で発表させて宣伝効果を生じさせ、この宣伝効果を誘導して宣伝に関する受付業務するカウンター31をレジスター場に併設させた構成。



## 【特許請求の範囲】

【請求項1】 買上商品の総重量を受付情報設定させ、登録操作時に計量装置で商品計量した重量情報を、読み取登録確認信号で累計させ、この情報と受付設定情報と比較し一致した場合を登録完了と認識する登録不正省略防止手段と、上記計量装置に乘置させた商品を、読み取区域を突き出し走行させる折り返し点を点検部とさせた構成と、この走行距離で計量情報を安定させる計量情報安定手段と、折返し点に設けた往送制御部で登録エラーを確認した場合に、この確認に係わらせて呼出し音を発生させてエラー処理させるトラブル対応機能を備えたキャッシュレジスタ装置と、この装置の計量装置の発進に反応させてゲーム駆動させ、ゲーム得点した場合に、この得点を読み取登録確認信号で有効とさせ、係員呼出し処理において得点取消しとする構成のゲーム装置を、レジスタ装置に連結させて、読み取登録を損得ゲーム感覚で正確操作させる構成の多機能ゲーム装置を備えたキャッシュレジスタ装置。

【請求項2】 請求項1記載のキャッシュレジスタ装置において、商品総重量情報受付時に買上登録情報の精算を実行させる手段として、顧客カードを受理して担保設定させ、この設定の放棄を監視する制御回路に、担保設定中にレジ離場によって人体検出が解かれた場合に回路閉成して警報するカード放棄防止手段と、請求項1記載の登録不正省略防止手段の重量比較一致信号と、精算確認信号の入力を条件にして担保解除駆動させてカード返却する精算管理装置を備えた多機能ゲーム装置を備えたキャッシュレジスタ装置。

【請求項3】 請求項1記載のキャッシュレジスタ構成において、計量装置の折り返し点に監視カメラを設置させ、突き出し商品の画像情報と読み取登録機構の商品名情報を混合器入力処理させて、上下段にモニター表示させて疑点の有無を照合する構成の登録操作行為画面情報照合装置を備えた多機能ゲーム装置を備えたキャッシュレジスタ装置。

【請求項4】 請求項1記載のキャッシュレジスタ装置において、商品計量装置の発進に反応させてゲーム駆動するよう構成させ、商品を特定してその単価を当選番号として記憶させた抽選記憶部を設け、外部操作で順次アドレス指定して記憶情報を抽選情報セット部へ出力させ、読み取登録確認信号を入力させて抽選情報としてラッチさせて置数させ、この情報と登録単価情報を比較して一致する情報を当選情報とさせて、ゲーム装置に連結させた宣伝装置の画面に広告主提供の賞品として発表する当選発表手段で宣伝画面に宣伝効果を発生させる構成の有償ゲーム装置を備えた、多機能ゲーム装置を備えたキャッシュレジスタ装置。

【請求項5】 請求項1記載のキャッシュレジスタ装置において、商品計量装置の発進に反応させてゲーム駆動するよう構成させたゲーム装置にくじ番号発生機を備え

させ、発進反応信号を入力させて発生番号をラッチさせて置数させ、この置数を読み取確認信号を入力させて登録実行の都度シフトさせてくじ番号を組構成させるくじ番号作成機をキャッシュレジスタに備えさせ、この番号組を記憶させてレシートに印字させて発表させる射的手段と、宣伝装置の宣伝画面に日替当選くじ番号を発表させたゲーム標的手段と、この手段照合において宣伝画面を印象づけて宣伝効果を発生させる構成の有償ゲーム装置備えた多機能ゲーム装置を備えたキャッシュレジスタ装置。

【請求項6】 請求項1記載のキャッシュレジスタ装置において、商品計量装置の発進に反応させてゲーム駆動するよう構成させた複数のゲーム装置に、発進反応信号を射的信号とさせ、この信号で情報を射止めた場合に情報をゲート通過させ、宣伝画面で獲得レジ番号を発表させる賞品獲得競争手段と、この手段の争奪目的を宣伝画面に間欠的に表示させた標的表示手段構成の有償ゲーム装置を備えた多機能ゲーム装置を備えたキャッシュレジスタ装置。

20 【請求項7】 請求項1記載のキャッシュレジスタ装置において、商品計量装置の発進に反応させてゲーム操作点数を発生させ、この点数を読み取登録確認信号で有効とさせて外部供給させ、この点数を受給するゲーム装置を子供機とさせる親子ゲーム構成と、この親子関係を接続するチャネルを親機に備えさせて子供の選択機と接続させて子供にゲームを楽しませ、上記の有効点数の供給の都度御負け点数を累計させ、読み取登録エラーによって累計点数を取消す点数取消残念手段と、この手段によって親側へ正確操作を子供から要求させる構成の親子ゲーム装置を備えた多機能ゲーム装置を備えたキャッシュレジスタ装置。

30 【請求項8】 請求項1記載のキャッシュレジスタ装置において、精算部に表示されるつり銭端数額を、任意にゲーム賭清算させて、賭倍率計算部へ呼び込みセットさせて賭倍率を設定させ、この選定で賭ゲーム体に当選確率を設定させてゲーム駆動させ、当選した場合に、当選によって発生させた倍率情報と、呼び込み情報とを乗算させて当選点数を提供する、つり銭端数清算ゲーム装置を備えた多機能ゲーム装置を備えたキャッシュレジスタ装置。

40 【発明の詳細な説明】

【0001】

【産業上の利用分野】 本発明は、キャッシュレジスタ装置に、ゲーム装置を連結させ、顧客にゲーム感覚的に登録操作させ、更に宣伝装置をゲームに関与させて、宣伝主にゲーム賞品を提供させるレジスタ代行装置の操作負担サービスを提供するシステムに関する。

【0002】

【従来の技術】 従来キャッシュレジスタの無人化については、様々な形態の提案がなされて来ているが、現在

その機能の特徴には、一長一短があり、普及しない現状にある。まず、顧客の不正行為防止機構において、

(1) 特開63-223998号公報には、商品コードスキャン時点でのラベルを変色させてレジ係による目視チェック及び(2)特開平2-238594号公報には、磁気シールを商品コードをスキャンした時点で磁化させ、磁化の有無をチェックする、(3)特開平7-249174号公報には、商品に買物ステータスを付与させる等、(4)特開平5-182082号公報には、商品重量設定情報と実測情報を比較する手段がある。更に、レジスタ装置にゲーム的要素を付加するサービス手段として、(5)特開平7-121773号公報によるPOSシステム利用者当選指定装置、(6)特開平7-210764号公報には、遊戯機能付データー処理装置。

(7) 特開平5-303687号公報には、イベント機能を有する電子キャッシュレジスタ等が提案されている。

#### 【0003】

【発明が解決しようとする課題】しかし、以上の提案については、次のような問題がある。すなわち、(1)-(3)については、商品に防犯対策を施す場合には、その防犯コストが高くなる欠点があり、(4)等の場合には、重量情報入力の作業量がコスト高になる欠点があり、(5)(7)についてはレジスタの操作を直接的に促進させるものではない。以上の観点に立って提案する場合には、基本的に現行のバーコード登録システムを変更しないで、簡単な構造において顧客に不正行為を防止させる考案必要になる。

【0004】次に顧客自身に読み取り登録を操作させる場合に、操作負担が最大の問題であり、この解決手段に、ゲーム的要素の装置を備えさせたものがある。しかし、ゲーム内容は、単機能的で選択性がないためにゲームに対する興味を半減させる問題があった。

【0005】更に、これらのゲームは、有償ゲームとして提案されているために、この提案を長期的に考えた場合に、賞品負担が大きく、また顧客は賞品価値の高いものを求めてくることにより、賞品費用の捻出に問題を生じ結果的に商品コスト高になる。

【0006】更に、買物には親子づれで来店し、レジヤー気分で買物する傾向が多く、その遊戯及び遊戯的設備を備えた店舗形態が集客能力をもっているが、これらの形態の必要経費は大きく、中小的店舗では設備負担が大きい問題がある。

【0007】また、従来の無人化形態のレジスタでは、不正防止機構が複雑であって顧客の意図的な不正行為を完全に防止することが出来ないために、最終的には人的対応が必要であった。

#### 【0008】

【課題を解決するための手段】従来の登録操作は、買物カゴの商品を取り出し、登録を実行して更に買物カゴに

移替えさせ、更に場所を移動して商品を袋体に詰入収納させるのが一般的であり、無人化においては、読み取り登録後の商品を監視状態に置き精算を確認して商品の持出しを許可していた。

【0009】本発明は、これらの形態を簡略化するため、顧客カードを受付時に受理して担保設定させ、この設定を買上商品の全量が読み取り登録された状態を確認し、更に精算を確認することで解除してカードを返却する手段とさせて、登録操作済商品を移替カゴに収納せずに直接袋体に収納させるよう移替作業行程を省略させた。更に、この形態においては、設定担保カードを放棄し、商品を不正に持帰ることが出来るが、その防止手段として、顧客がレジスタの場所を離れた場合に警報を発生させる手段を設けた。

【0010】商品のバーコード読み取り登録操作においては、まず商品の総重量を確認計量させて重量情報を受付設定させ、更に商品読み取り登録の都度その商品の重量を計量し登録を確認して累計させる条件登録とさせ、この条件が成立しない場合に、不成立確認手段として読み取り走行の折り返しを停止させ、係員の対応を求める呼び出し手段を設けて処理させる手段と、この手段で処理させて計量情報を累計させ、登録操作完了時の合計情報と受付設定重量情報を比較させる手段を設け、一致する場合に精算を許可し、一致しない場合に前述のカード担保を解除しない手段と、この手段に重量合わせするため一度に複数の商品を計量乗算する等の不正を防止するため、走査域を脱出させた突き出し走行距離を設け、この走行の折り返し点に監視カメラを設置させ、商品状態を監視する商品形状情報を走査域で読み取り登録された商品名情報をモニターに対比表示させ、現品と登録品名とを照合する対査確認手段を設けた。

【0011】旅行案内等の異種業務の作業カウンターを設け、このカウンターに上記のモニターを備えさせ、受付対応中にレジ操作の背面行為をモニターにおいて監視させる複合営業施設とさせ、受付対応がない場合に折り返し点での商品の状態を目視チェックする抜き打ち的な監視を実行されることで、係員の存在感を不正行為の抑止力とさせた監視手段とさせた。

【0012】次に顧客の買上登録の作業負担解消手段として、この操作をゲーム感覚で操作出来るように、登録操作時点に反応して自動的にゲーム駆動する構成にゲーム装置を連結させ、そのゲームを有償とさせて射幸心をもたせて作業負担を解消する手段とさせた。

【0013】更に、この手段での賞品の提供を、レジスタ周辺の集客度を利用して設けた宣伝装置に、ゲームを介して注目度を発生させ、その効果を誘導して、その宣伝に関する受付事務を上記カウンターで営業させる複合営業構成とさせ、兼務作業での利益を生じさせ、更に宣伝主より賞品を提供させ、宣伝の関心と興味度を発生させ、宣伝画面にゲームの結果を発表させるために、

ゲーム装置と宣伝装置を合体させる構成とさせた。

【0014】従来、レジスタに備えるゲーム装置には、乱数的にくじ番号を作成するものであって、ゲーム題材がこの種に限定されたゲーム内容であった。本発明においては、商品単価を当選くじ番号とさせた当選確率設定を商品の中から選定し、売れ行きの良い商品、又は、新発売中の商品等を当選くじ番号設定して販売促進させる手段と、宣伝画面に当選番号を発表させ、この番号のくじ番号券の作成を買上登録の都度数字桁上げさせて作成発行するゲーム構成と、宣伝画面で発表させた賞品を複数の顧客によって獲得競争させるゲーム構成と、親子で楽しめる親子ゲーム装置構成と、精算時のつり銭端数額をゲーム賭させて損得に清算処理させる等の多機能型の構成にレジスタに連結させた。

【0015】

【作用】請求項1記載の発明によれば、買上げした商品の総重量の受付情報設定に対し、買上げ登録した商品の重量の合計が必ず一致するものとさせて比較させ、この商品重量比較作用で操作の正誤が判定され、更に登録の実行がなければ商品の重量が累計されない相互確認作用で登録の不正省略行為を防止させる。更に、計量装置に商品乗置した時の計量情報の乱数値が計量装置の走行中に計量情報を安定させるように働き正確な計量情報が得られる。更に、計量装置の走行読み取りが読み取エラーした場合に、このエラー信号が折り返し点の制御部に係わり係員の呼び出し装置を働きかせる。

【0016】請求項2について、カードを顧客の個人情報として精算手段に担保設定した場合に、商品重量比較の一一致で登録の完了が確認され、この信号の働きと精算の完了を確認した信号の働きによって担保設定を解除する条件を成立させ、更にこの条件を無視して、レジスタ場を離れた場合に、担保設定での回路接続と人体検出解除での回路接続によって担保放棄を警報させるために、この回路が担保を監視する働きをする。

【0017】請求項3においては、実際に読み取った情報と、計量装置に乗置走行させた商品とが一致するかいなかの比較手段として働き同一画面で照合される。

【0018】請求項4においては、店舗の商品単価を特定し当選番号として記憶設定させることで、この抽選番号が操作登録商品単価情報に対し当選比較手段として働き、当選確率設定が自在に操作出来る。

【0019】請求項5においては、宣伝画面に表示されている当選番号の表示が顧客に対し射幸心を働きかせて宣伝画面を注目させ、更にレジスタに備えるくじ番号作成機のくじ番号作成において抽選した置数を買上登録を確認する都度シフト信号として働きかせるために、くじ番号が設定通りに桁並びされて構成され、レシートで発表されるために、このくじ番号と画面発表の当選番号との照合によって2度目の宣伝画面を注目することになる。

【0020】請求項6においては、広告主提供の、賞品

の情報を外部的に入力させて画面表示させ、更にこの情報を複数のレジスタ装置に転送させて短時間設定させて標的とさせ、この標的情報を射的させる手段を、レジスタの登録時の計量装置の発進に反応させて信号を発射されれば、この信号が標的に対し射的に行き競争ゲームが実行される。

【0021】請求項7においては、親機の操作で発生させたゲーム操作点数情報が、子供ゲーム装置を駆動させる働きを行い、更にサービス付加した御負け点数が登録操作のエラーで取消しされるために、親子に残念感を与える、操作エラーの発生を防止するように、この取消機能が働く。

【0022】請求項8については、つり銭端数が、当選によって設定倍率で乗算されるために顧客に好奇心及び射幸心が働き、精算部にゲーム的興味を与える。

【0023】

【実施例】本発明の実施例を図面によって説明する。まず、このシステムの全体構成は、第2図に示す様に複数のキャッシュレジスタ装置を並列に配置させ、このレジスタの商品バーコード読み取り登録操作を顧客に代行操作させ、この登録操作走行レーンの不正行為監視と、読み取エラー等のトラブル対応係員に店員を配置させるもので、第2図において登録代行者をCとさせ、対応係員をDとさせている。カウンター31は複合施設であって、旅行案内等の異種業受付カウンターである。顧客Cの手元A点を読み取走行計量装置1が商品6を乗置させて発進し、読み取登録機構2において走査読み取をされ、この登録機構の読み取部域を更に走行させ商品を係員に目視チェック出来る位置まで突き出させるB点を、折返しさせるものであって、この行程において、読み取エラーが発生した場合に、計量装置1が折返点Bで停止し、この折返点に係わる制御部の呼び出し装置において係員を呼び出しさせ、係員は、トラブル対応部5において読み取再処理等の作業を行うものである。

【0024】これらの処理が実施され、計量装置1がA点に帰還し、顧客Cは計量装置より商品を取り出し、直接買物袋体36に商品を収納する。この買物袋体36は、監視状態に支持されておらず、精算無しで持帰ることが出来るよう解放状態に置かれている。しかし、精算しないで持帰りした場合に警報が作動し、この行為が発覚するように、顧客カードを精算手段として受付時に担保設定せるものである。

【0025】以上の登録操作の計量装置1の発進時に自動的に反応させて、ゲーム装置4を駆動させ、登録操作がゲーム感覚的に実行されるようになっている。この反応駆動でゲームが得点された場合にこの得点の有効無効を読み取登録の確認で判定していく、登録操作のエラーの発生を防止させた正確操作を励行させている。

【0026】更に、このゲーム装置は有償ゲームであって、当選賞品を広告主より提供させ、この賞品を獲得す

るため、登録操作を射幸的に実行させるようにさせ、更に、当選発表手段を宣伝画面に表示させ、ゲームの注目度を媒体応用させて宣伝効果を発生させている。この宣伝効果の発生を誘導し、この宣伝に関する受付業務をする受付案内カウンター31を設置させ、受付係員

(D)とさせ、宣伝誘導された顧客(C)が宣伝に関する説明を受けている場面である。この作業場で宣伝営業の収益をあげ一人の定員で複数の代行登録レーンを管理出来るために人数削減がこのシステムで実現出来る。

【0027】以上が本発明のレジ代行管理及び宣伝誘導営業システムの概略説明である。以下第1図において具体的に説明すると、レジ代行客が利用受付において所有する顧客カードをカード受理部11に差し入れると、レジスタ装置が起動状態になり受け付けを開始する。顧客は買物カゴ7を受付計量部8に載置すると、商品総重量が計量され重量情報値が設定部30に対比情報として設定される。以下この設定情報に一致するように、商品個々の重量を読み取登録時に計量装置1において計量し、この計量装置1に商品6を乗置したことを感知して、計量装置をA点を発進させて走行させ、B点の到着点で往送制御部13が計量装置の到着係合を検出して信号を発生させ、ゲート21と22に同時入力させる。

【0028】このA点とB点間の走行中に、計量情報の乱れを安定させ正確な情報とさせてゲート21に入力させ、走行中に商品バーコードが登録機構2のスキャナーに走査されて、読み取登録がなされると、その確認信号がゲート21に入力されゲートが開き、商品重量情報が累計部12に送られ重量情報が累計される。同時に、登録確認信号がインバターゲートで反転されゲート22が閉じられ、到着検出信号が復送制御部14に入力され、復送制御されて計量装置が復送帰還してB点に戻る。

【0029】上記読み取走行中に読み取エラーが発生した場合に、計量装置1の到着検出信号が無反転状態のゲート22を通過してトラブル発生呼出部15に入力されて呼出音を発生させ、更に復送制御部14に入力されて復送を停止させる。この呼出しを受けた係員Dは、計量装置より商品を取り出しトラブル対応部5に備えた手動スキャナーで読み取登録を処理し、復送停止を解除させて復送走行させて帰還させ、この手動登録で商品の計量情報も累計される。

【0030】次に帰還点Aに備えた発進反応部20は、計量装置の発進と帰還を認識する機能を備え、計量装置の発進を検出して信号を発生させ、ゲーム装置4に入力させてゲーム駆動させる。この反応感覚が射的感覚を生じさせ、この操作後にゲーム得点があった場合に、その得点情報を得点セット部17にセットさせ買上登録の確認信号の入力を待ってゲート23で有効と判定して得点累計部16で得点累計する。

【0031】もし読み取エラーが発生した場合には、係員呼出し処理となるために、トラブル対応部5で得点取消

信号入力させてセット部17の得点情報がクリヤされて取消しとなる。この手段は、顧客はこの取消しによって残念感を持ち正確な読み取操作が実行されるために設けた機能である。

【0032】次に、買上登録が完了すると、重量情報累計部12の合計情報と上記受付重量設定部30との情報比較が実行され、比較器18より一致信号がカード受理装置11に入力され、精算の実行を待つ状態に待機する。次に精算が実行されると、第9図に示す様に重量比較一致信号の待機に精算確認信号が入力されてカード返却駆動部63が返却駆動して担保を解除しカード担保支持スイッチ64が開合し監視回路Eを遮断させる。この担保支持は、この支持を形成する監視回路Eに警報器65と回路開閉器66が介在されていて、更にこの開閉器66は、人体検出器67によって開閉制御されるもので、人体検出中は、この監視回路Eは遮断され、顧客がレジスタ場を離れた場合に回路が閉成される構成になっており、顧客が精算しないでカードを放棄してレジスタ場を離れた場合に回路Eが完全に形成されて警報器65が起動して発音させる。以上の制御でカードを担保として設定し精算を実行させるように管理するもので、この機能によって、買物袋体を監視支持せずとも商品の持ち帰りが防止される。

【0033】次に本発明でのレジスタの配置は、10台ぐらいの配置でレイアウトされていて、顧客の好みに合うようにそれぞれゲーム機能の異なる機種を、レジスタ装置に連結させていてゲーム機種を自由に選択出来るようになっている。次にレジスタに連結するゲーム装置を機種別に説明すると、第3図に示すゲーム装置は、特定の商品の単価を当選番号として、アドレスを選択的に指定させて、外れ番号の中に混入的に記憶させ、アドレスを順次操作させて、くじ情報として出力させ、くじ番号情報セット部44に順次呼込みさせ、発進反応部20の射的信号の入力でラッチさせて置数させ、この抽選番号と読み取登録機構2によって登録された商品単価情報を、登録単価セット部32に置数させて比較部34で比較させ、一致する情報の数値を得点情報として宣伝装置の画面4に、当選メッセージと同時に表示発表させて、顧客に発表関心をもたせ、更に広告主の提供する賞品内容に注目させて宣伝を強く印象づける効果を発生させる。

【0034】次に第4図に示すゲーム装置は、宣伝画面に宣伝を表示させ広告主提供的賞品内容と、当選番号表示させて操作関心と射幸心を刺激させて積極的な登録操作を誘導させる標的構成に宣伝装置をレジスタと対向に設置させ、この表示されてある当選番号を意識させて買上登録を操作させ、この操作の発進反応部20の発信入力で、数字発生部37の数字情報をラッチさせて置数させ、登録機構2の登録確認信号をシフト信号とさせて、シフトレジスタ40の置数情報をシフトさせて登録実行の都度桁送りさせて、くじ番号組を構成させて記憶部3

8へくじ番組別に登録させ、登録操作の完了でレシート発行装置35でくじ番号券を発行するくじ番号成機を複数のレジスタ装置へ備えさせる。顧客はこのレシートのくじ番号組を、上記宣伝画面の当選番号と照合して当落を確認し、この確認手段で宣伝内容が強く印象づけられる。

【0035】次に第5図に示すゲーム装置は、宣伝装置の画面4上段に宣伝内容を表示させ、中段にレジスタ装置の番号を表示させ、下段に広告主提供の賞品情報を間欠的に発表させて、この情報を数秒間画面静止させて、複数の顧客に標的とさせて競争意識させる。更に、この情報をバス61を通じ、各レジスタ装置に備えたゲート24、25、26に短時間的に入力させて標的とさせてセットさせる。この標的情報を計量装置への商品乗置タイミングで射的に操作させ、この反応信号をゲート入力させて待機標的とさせた情報と、一致して射止められた場合に、この標的情報がゲートを通過してレシート発行部35に情報を記録させ、同時にレジスタ番号発生器41を起動させて、レジ番号情報をバス62を通してレジ番号表示部46に賞品獲得レジ番号として当選発表される。この賞品の獲得において相互に競争心がおこり操作意欲が喚起される。

【0036】次に、第6図に示すゲーム装置の構成は、親子で操作されるゲーム装置であって顧客を親として、買上登録操作の計量装置1の発進の都度発進に反応させて信号を点数発生器48に入力させ、調整設定したゲーム操作点数を登録の確認信号で有効と判定して子供ゲーム装置43に点数を供給させ、この点数量で子供がゲーム出来る。この子供ゲーム装置は、複数機配置されていて、この子供ゲーム装置43を親機に備える接続チャネル47を介して子供の選択に対応して連結させ、点数転送バスを形成させる。更に親機の買上登録が確認され点数を供給する度に、この度数を度数計45に入力させ御負点数として度数計算させ、この御負け点数が顧客の読み取りエラーの発生においてトラブル対応部5の操作で取消せれる。

【0037】この御負け点数は、登録操作の完了時において御負け点数として商品重量の比較部18の一一致信号の入力で供給され、親が精算等の作業中においてもゲームが出来るように付加サービスされるものである。この点数の取消しによって、親子に残念感が生じ親は買上登録に正確な操作を子供に要求され、親はその要求に応るために正確な登録操作が実行される。

【0038】次に第7図のゲーム装置の構成は、精算時に発生するつり銭の端数額、例えば、85円または、30円等の2桁を金額限定した少額の端数を損得を勘定させて、ゲーム操作で清算処理せるものであって、このゲーム処理を実行するか、いかには、顧客の自由選択でなされ、倍率ゲームで損得を楽しむゲーム設定である。

【0039】例えば、精算端数が65円であって、顧客

はゲーム賭処理したい場合には、この65円を呼出しボタンの操作で計算部51に呼出しセットさせ、10倍の倍率指定スイッチ56を選択して押した場合に、倍率制御部54の倍率区画灯52、1灯が点灯し、この点灯52を配置している回転ゲーム体55が回転駆動し一定の回転後に駆動を停止させ、その後の余勢停止で点灯52が当選検出部53と係合して点灯を検出した場合に、その検出信号の入力で倍率制御部54の制御信号をゲート27を通過させて倍率情報発生部60に入力させて10倍情報を計算部51に入力させ、呼出設定している65円と乗算し10倍の650点を表示57に表示し、更に、レシートに印字させて点数発行させる。

【0040】この賭清算に失敗し落選した場合には、呼出し端数額はクリヤされて没収処理される。更にこの倍率制御部54は、倍率10倍で1個が点灯し、5倍で2個、2倍で3個の様に賭率に応じて回転ゲーム体55に当選難度を構成させる。

【0041】次に第8図によって顧客操作行為監視機構を説明すると、折返点において商品の状態等、例えば替玉バーコードが貼付されているか、いなかの点検を係員の作業中に抜き打ち的に直接監視する以外に、折返し点B点に監視カメラ3を設置させ、商品画像情報と、読み取り登録機構2で登録した商品名情報を混合器58へ入力させて画像処理させ、画面4に、上段に商品形状と、下段に商品名を表示させて上下段の情報を照合し、その一致及び不一致を確認する照合手段を備えさせ、この照合装置は、係員が案内カウンター31で顧客説明対応の場合において背景監視機能として備えたものであって、画面はカウンター31に設備されている。更に、この照合手段において、不一致する情報がある場合に、例えば、上段の商品に値段の高い商品が表示され、下段に値段の安い読み取り登録商品名が表示された場合に、この画面に備えた対応スイッチの操作で商品の折返しを停止させ、商品登録情報の再確認をすることができる。

【0042】  
【発明の効果】 請求項1の発明では、計量装置への商品を乗置させるだけの単純な代行作業で、登録操作のエラーを係員の呼出して処理させるために顧客操作負担を軽減化出来、また操作負担代償のゲーム装置において、得点取消機能によって正確な登録操作が実行される。

【0043】請求項2の発明では、顧客カードの担保設定が精算実行の監視機能として働くために、登録後の商品を直接袋体に詰入れ収納出来るために、買物袋体を特別に監視拘束する必要がなく、買物カゴ体から買物カゴ体への商品の移替えが省略され、登録済商品の監視機能が省略できる。

【0044】請求項3の発明では、登録情報の商品名と実物商品との相違が同一画面で照合出来、顧客の替玉バーコード等の偽装工作が発見できる。

50 【0045】請求項4の発明では、当選賞品の提供を広

告主に提供させ、その賞品獲得を期待させて、買上登録の操作をゲーム感覚的に操作させることが出来、この当選確率設定が店舗の商品の中から選んで設定出来るために、自在な確率の設定が出来る。例えば、宣伝中の商品の単価を設定することで宣伝効果を上げることが出来る。

【0046】請求項5の発明では、当選難度をくじ番号桁数を増減することで自由に設定出来、広告主に高額の賞品を提供させて挑戦的で登録操作を実行させることができる。

【0047】請求項6の発明では、広告主が提供する賞品を複数の顧客に競争的に獲得させ、宣伝画面に複数の顧客を集中させる宣伝効果を発生させることができる。以上の宣伝装置と、ゲーム装置との合体によって発生させた宣伝効果を誘導させ、この宣伝に関する営業を複合施設として受け付業務による利益を生じさせ、更に広告主より賞品の提供を受けた顧客サービスが実現出来る。

【0048】請求項8の発明では、親子での買物に対し、親子でゲームを楽しみながら登録操作を実行させることができ、更に御負け点数の取消機能によって親の登録操作が正確に実行される。

【0049】請求項8の発明では、精算時におけるつり銭の処理作業は両者にとって煩しい作業であり、この問題をゲーム的に清算処理することが出来、更に少額の損失感よりも、多額の利得感が大きく、遊戯的な興味を高めさせ出来る。

#### 【図面の簡単な説明】

【図1】 本発明に係る商品登録機構及び、ゲーム装置の連結構成を示すブロック図である。

【図2】 本発明の実施態様を示す全体構成図である。

【図3】 商品登録機構に係らせた、商品単価を比較情報とさせた当選決定機能ブロック図である。

【図4】 商品登録機構に係らせた、宣伝画面での発表当選番号に対するくじ番号作成機をレジスタに備えた機能ブロック図である。

【図5】 商品登録機構に係らせた、賞品提供の発表を複数のレジスタで獲得させるゲーム構成を示すブロック図である。

【図6】 商品登録に係らせた、親子ゲーム装置の構成を示すブロック図である。

【図7】 精算部に係らせた、つり銭端数のゲーム清算

処理機能を示すブロック図である。

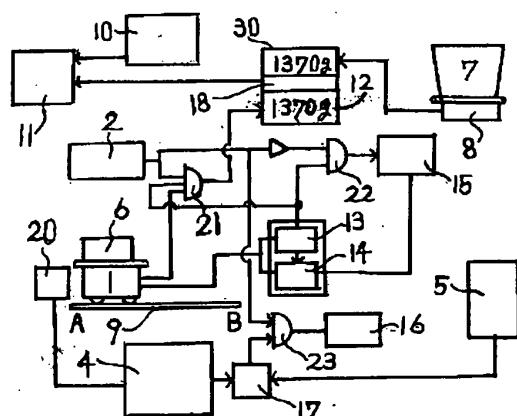
【図8】 読取走行計量装置の折返点に係らせた、商品現物と、登録商品名照合手段を示す機能ブロック図である。

【図9】 顧客カード担保設定機能を示すブロック図である。

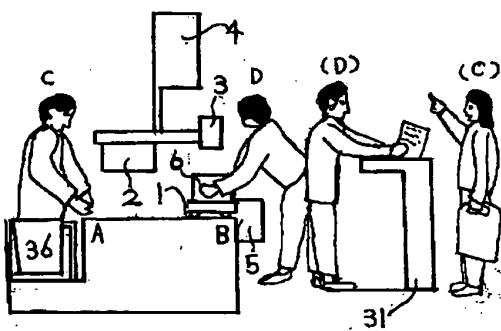
#### 【符号の説明】

1、	計量装置	30、受付重量設定部
5 4、	倍率制御部	
10 2、	商品登録機構	31、案内カウンター
5 5、	回転ゲーム体	32、登録単価セット部
3、	監視カメラ	33、抽選情報記憶部
5 6、	倍率指定スイッチ	
4、	宣伝画面	34、比較部
5 7、	表示部	
5、	トラブル対応部	35、レシート発行部
5 8、	混合器	
6、	商品	36、買物袋体
6 0、	倍率情報発生部	37、数字発生部
20 7、	買物カゴ	38、くじ番号組記憶部
6 1、	6 2、バス	
8、	受付計量装置	40、シフトレジスタ
6 3、	カード返却駆動部	
9、	レール体	41、レジ番号発生器
6 4、	担保支持スイッチ	
10、	精算部	43、子供ゲーム装置
6 5、	警報器	44、くじ番号情報セット部
11、	カード受理部	45、度数計
6 6、	回路開閉器	46、レジ番号表示部
30 12、	重量情報累計部	47、接続チャネル
6 7、	人体検出器	48、点数発生器
13、	往送制御部	50、つり銭端数表示部
14、	復送制御部	51、計算部
15、	トラブル対応呼出部	52、倍率区画灯
16、	ゲーム得点累計部	53、当選検出部
17、	得点情報セット部	
18、	比較器	
20、	発進反応部	
21、	22、23、24、	
25、	26、27、28、	
29、	ゲート	

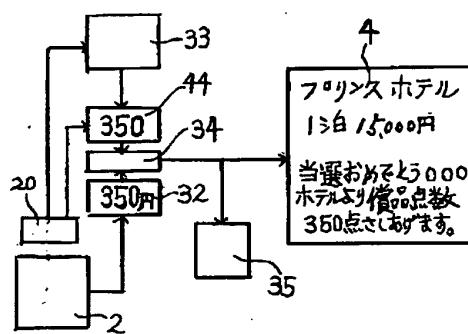
【図1】



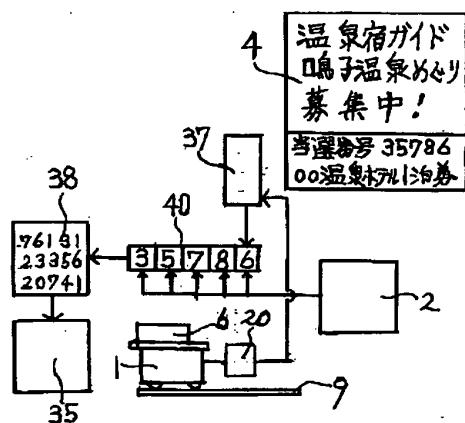
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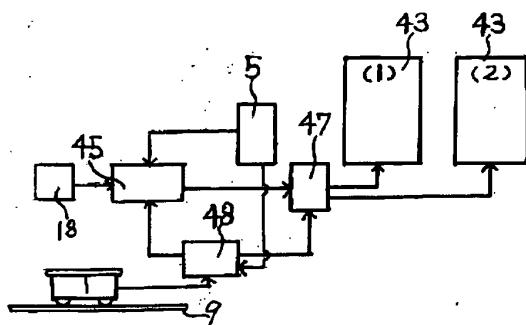
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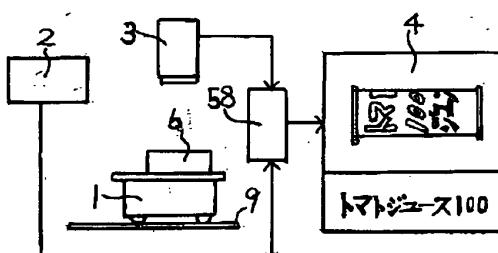
【図4】



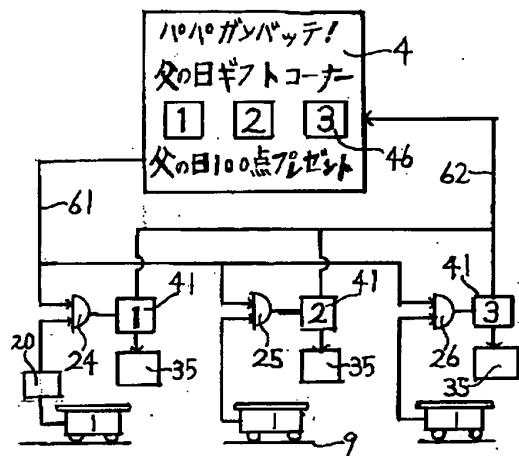
【図6】



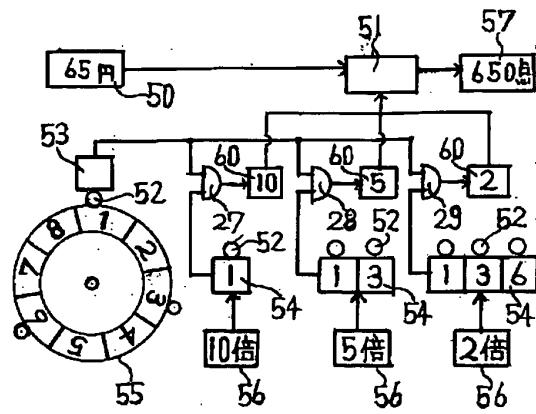
【図8】



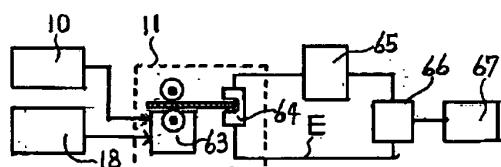
【図5】



【図7】



【図9】



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**Bibliography**

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G06F 17/60  
G07G 1/14  
[FI]  
G07G 1/12 321 M  
1/14  
G06F 15/21 310 Z  
[Request for Examination] Un-asking.  
[The number of claims] 8  
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(71) [Applicant]  
[Identification Number] 593131426  
[Name] Ito Yasuo  
[Address] 3-1, Hon-cho, Otsuchi-cho, Kami-Hei-gun, Iwate-ken  
(72) [Inventor(s)]  
[Name] Ito Yasuo  
[Address] 3-1, Hon-cho, Otsuchi-cho, Kami-Hei-gun, Iwate-ken
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**Summary**

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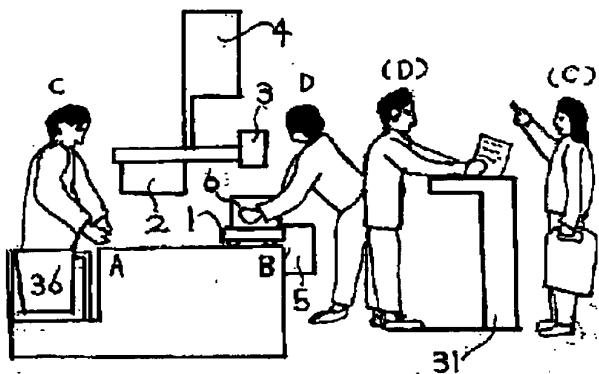
**(57) [Abstract] (\*\*\*\*\*)**

[Technical problem] Profits are produced in the receptionist business to which the impact of advertising which the advertisement equipment to which an advertiser is made to offer the prize which receives a score in a game is made to coalesce in a game, and makes a \*\*\*\* announcement on an advertisement screen was made to guide, and the efficiency of a surveillance staff's work is made to increase.

[Means for Solution] Make the goods weight at the time of registration \*\*\* goods 6 with a metering installation 1, it is made to measure so that it may be made in agreement with the goods AUW information measured by the receptionist, and it is by the registration mechanism 2 during a run of A to B points. The register composition which performs a reading scan, is stopped by B cuffs of a metering installation 1 when this execution makes an error, calls an official in charge, and is made to process by the corresponding point 5, Composition to which formed the coalesce section 4 of game equipment and advertisement equipment which carries out a game drive in response to start of this metering installation, made the advertisement screen announce a success-in-an-election announcement of a game score, produced the impact of advertising, guided this impact of advertising, and the counter 31 about advertisement which carries out receptionist business was made to put side by side at a register place.

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[Translation done.]

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**CLAIMS**

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[Claim(s)]

[Claim 1] The cash register equipment had multirole game equipment of composition of making the game equipment of composition of confirming this score and considering it as score cancellation in official-in-charge call processing by the reading registration-confirmed signal when it makes react to start of the cash register equipment characterized by to provide the following and the metering installation of this equipment, a game drive carries out and a game score is carried out connect with register equipment, and carrying out the exact operation of the reading registration with profit-and-loss game feeling A registration unjust ellipsis prevention means to recognize the case where made the weight information which was made to carry out a receptionist information setup of the AUW of purchase goods, and carried out goods measurement by the metering installation at the time of registration operation total by the reading registration-confirmed signal, and it is in agreement as compared with this information and receptionist setting information to be the completion of registration Composition in which the clinch point of having

projected a reading zone and making it running the goods made \*\*\*\*(ing) to the above-mentioned metering installation was considered as the check section The measurement information stable means which stabilizes measurement information in this mileage The trouble correspondence function which is made to relate to this check, is made to generate a ring tone, and carries out error processing when a registration error is checked by the \*\*\*\* control section prepared in the point by return

[Claim 2] Cash register equipment according to claim 1 characterized by providing the following The khat abandonment prevention means which carries out circuit closing and which receives a customer card, is made to carry out a security setup as a means to purchase at the time of a goods AUW information receptionist, and to perform settlement of accounts of registration information, and carries out an alarm to the control circuit which supervises abandonment of this setup when human body detection is solved by the register \*\* place during a security setup The weight comparison coincidence signal of a registration unjust ellipsis prevention means according to claim 1 Settlement-of-accounts management equipment which is made to carry out a release-of-security drive on condition that the input of a settlement-of-accounts acknowledge signal, and carries out card return

[Claim 3] Cash register equipment equipped with multirole game equipment equipped with the registration operation action screen information collating unit of composition of making a surveillance camera install in the clinch point of a metering installation, carrying out mixer input process of the image information of ejection goods and the tradename information on a reading registration mechanism in cash register composition according to claim 1, making the vertical stage carry out a value monitor, and collating the existence of \*\*\*\*.

[Claim 4] It is made to constitute so that it may be made to react to start of a goods metering installation and a game drive may be carried out in cash register equipment according to claim 1. The lottery storage section which goods were specified [ section ] and made the unit price memorize as a success-in-an-election number is prepared. Carry out sequential addressing by external operation, and storage information is made to output to the lottery information set section. Make a reading registration-confirmed signal input, make it latch as lottery information, and the number of \*\* is carried out. The information which compares this information with registration unit price information, and is in agreement is made into success-in-an-election information. Cash register equipment which equipped the advertisement screen with multirole game equipment equipped with the onerous game equipment of composition of generating the impact of advertising with a success-in-an-election announcement means to announce to the screen of the advertisement equipment made to connect with game equipment as a prize of advertiser offer.

[Claim 5] Cash register equipment according to claim 1 characterized by providing the following The game equipment made to constitute so that it may be made to react to start of a goods metering installation and a game drive may be carried out

is made to be equipped with a lot number generating machine. A cash register is made to be equipped with the lot number creation machine which make a start reaction signal input, a generating number is made to latch, and the number of \*\* is carried out, and makes a reading acknowledge signal input, shifts this number of \*\* at every registration execution, and carries out group composition of the lot number. the target practice which make memorize this number group, and a receipt is made to print, and is made to announce — a means Game target means which made the advertisement screen of advertisement equipment announce a Japanese \*\*\*\*\* lot number Onerous game equipment preparation \*\*\*\*\* game equipment of composition of impressing an advertisement screen in this means collating, and generating the impact of advertising

[Claim 6] Cash register equipment according to claim 1 characterized by providing the following two or more game equipments made to constitute so that it may be made to react to start of a goods metering installation and a game drive may be carried out — a start reaction signal — target practice — a prize acquisition competition means to consider as a signal, to carry out gate passage of the information when information is won by this signal, and to make an advertisement screen announce an acquisition register number Onerous game equipment of the target display means composition which displayed the scramble target of this means on the advertisement screen intermittently

[Claim 7] Cash register equipment according to claim 1 characterized by providing the following Parent-and-child game composition in which it is made to react to start of a goods metering installation, and the number of game operating points is generated, these mark are confirmed by the reading registration-confirmed signal, external supply is carried out, and the game equipment which receives these mark is considered as a child machine The mark cancellation regrettable means which make a main phone equipped with the channel which connects this parentage, make it connect with a child's selector, and a child is made to enjoy a game, is made to total defeat mark at every supply of the above-mentioned effective mark, and cancels accumulating-totals mark by reading registration error Parent-and-child game equipment of composition of making exact operation require of a parents side from a child by this means

[Claim 8] Cash register equipment according to claim 1 characterized by providing the following Scale-factor information generated by success in an election when carry out game bet liquidation arbitrarily, make the change fraction frame displayed on the settlement-of-accounts section call in and set to the bet scale-factor calculation section, and the bet scale factor was made to set up, success-in-an-election probability was made to set it as a bet game object by this selection, a game drive was carried out and it won Change fraction liquidation game equipment which is made to carry out the multiplication of the calling-in information, and offers success-in-an-election mark

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[Translation done.]

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**DETAILED DESCRIPTION**

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**[Detailed Description of the Invention]**

**[0001]**

**[Industrial Application]** this invention makes game equipment connect with cash register equipment, make a customer do registration operation at a game feeling target, and it makes advertisement equipment participate in a game further, and relates to the system which offers the operation burden service of register vicarious execution equipment which the advertisement Lord is made to provide with a game prize.

**[0002]**

**[Description of the Prior Art]** Although the proposal of various forms has been conventionally made about full automation of a cash register, there are merits and demerits in the feature of the function, and it is in the present condition not spreading now. First, it sets in a customer's malfeasance prevention mechanism, and is in (1) JP,63-223998,A. A label is made to discolor at the bar code scan time, and when the scan of the bar code is carried out to the sight check and (2) JP,2-238594,A by register charge, they are made to magnetize a magnetic seal, and there is a means to compare goods weight setting information with survey information in (4) JP,5-182082,A at (3) JP,7-249174,A which checks the existence of magnetization, such as making the shopping status give goods etc. Furthermore, the electronic cash register which has an event function is proposed by a data processor with a game function, and (7) JP,5-303687,A as a service means to add a game-element to register equipment at the POS system user success-in-an-election specification equipment by (5) JP,7-121773,A, and (6) JP,7-210764,A.

**[0003]**

**[Problem(s) to be Solved by the Invention]** However, there are the following problems about the above proposal. That is, in taking the measures against crime prevention against goods about (1)-(3), there is a fault to which the crime prevention

cost becomes high, and in the case of (4) etc., there is a fault from which the rating of a weight information input becomes cost quantity, and it does not promote operation of a register directly about (5) and (7). It is [ of making a customer preventing a malfeasance in easy structure / design ] necessary without changing the present bar code registration system fundamentally, in proposing from above viewpoint.

[0004] Next, when making the customer itself operate reading registration, an operation burden is the biggest problem and there is a thing which made this solution means equipped with the equipment of a game-element. however, the content of a game — single — it was functional, and since there was no selectivity, there was a problem which reduces the interest over a game by half

[0005] Furthermore, since these games are proposed as an onerous game, when this proposal is considered in the long run, by asking for what has high prize value, a customer produces a problem in working out of prize costs, and a prize burden becomes large goods cost quantity as a result.

[0006] Furthermore, there is a problem that the necessary expenses of these gestalten are large and a facility burden is large at a minor store although shopping has many inclinations which come to the store by parent-and-child \*\*\*\*\*, and are bought in the mood of leisure and the store gestalt equipped with the play and the game-facility has \*\*\*\* capacity.

[0007] Moreover, the unjust prevention mechanism was complicated, and since a customer's intentional malfeasance was not able to be prevented completely, finally human correspondence was required of the register of the conventional full automation gestalt.

[0008]

[Means for Solving the Problem] It was general, and in full automation, the conventional registration operation taking out the goods of a shopping basket, and it performing registration, making it \*\*\*\*\* to a shopping basket further, moving further in a place, and making a bag body carry out the \*\* ON receipt of the goods put the goods after reading registration on the executive state, it checked settlement of accounts, and had permitted the corbel of goods.

[0009] this invention was made into a means to cancel by checking the state where received and carried out a security setup of the customer card at the time of a receptionist, and purchased this setup and reading registration of the whole quantity of goods was carried out in order to simplify these gestalten, and checking settlement of accounts further, and to return a card, and the \*\*\*\* working stroke was made to abbreviate to making a direct bag body contain without making a \*\*\* basket contain goods operated [ registration ]. furthermore, this gestalt — setting — a setting security card — abandoning — goods — inaccurate — \*\*\*\*\* — although things were made, when a customer left the place of a register, a means to generate an alarm was established as the prevention means

[0010] In bar code reading registration operation of goods, carry out check

measurement of the AUW of goods first, and a receptionist setup of the weight information is carried out. Furthermore, measure the weight of the goods whenever [ capital / of goods reading registration ], and it considers as the condition registration which makes registration check and total. A means to make a call means to stop the clinch of a reading run as an abortive check means, and to ask for correspondence of an official in charge when this condition is not satisfied establish and process, A means by which make it process with this means, make measurement information total, establish a means to make the sum total information at the time of the completion of registration operation compare with receptionist setting weight information, permit settlement of accounts when in agreement, and the above-mentioned card security is not canceled when not in agreement, In order to prevent injustice, such as carrying out measurement \*\*\*\* of two or more goods at once in order to carry out weight doubling to this means The monitor was made to indicate by contrast the tradename information by which reading registration was carried out by the goods configuration [ which project, prepare mileage, are made to install a surveillance camera in the clinch point of this run, and supervise a goods state ] information from which the scanning zone was extricated, and the scanning zone, and a means for \*\*\*\*\* to collate the thing and a registration name of article was established.

[0011] Form the work counter of different-species business, such as a tourist guidebook, this counter makes equip with the above-mentioned monitor, and it considers as the compound operating institution which makes the tooth-back action of register operation supervise in a monitor during receptionist correspondence, and when there is no receptionist correspondence, it considered as the surveillance means in which an official's in charge presence was made to put with perform the surprise-surveillance which carries out the sight check of the state of the goods in a point by return as the deterrent of a malfeasance.

[0012] Next, as a work burden dissolution means of purchase registration of a customer, game equipment is made to connect with the composition which carries out a game drive automatically in response to a registration operation time, the game is made onerous, \*\*\*\*\* was given and the work burden was made into a means to cancel so that this operation could be operated with game feeling.

[0013] Furthermore, make a game intervene in the advertisement equipment which prepared offer of the prize in this means using the degree of \*\*\*\* of the register circumference, make it generate the degree of attention, and the effect is guided. In order consider as the compound operating composition which makes the receptionist office work about the advertisement run at the above-mentioned counter, to produce the profits in additional post work, to make a prize offer from the advertisement Lord, to generate the interest and the degree of interest of advertisement further and to make an advertisement screen release the result of a game It considered as the composition which makes game equipment and advertisement equipment coalesce.

[0014] Conventionally, it was the content of a game which creates a lot number in random number to the game equipment with which a register is equipped and by which the game subject matter was limited to this kind. In this invention, a success-in-an-election probability setup to which the goods unit price was considered as the success-in-an-election lot number is selected from goods. The good goods of sale, Or a means to carry out a success-in-an-election lot number setup, and to make the goods under new sale etc. make a sales promotion, The game composition which an advertisement screen is made to announce a success-in-an-election number, purchases creation of the lot number ticket of this number, is made to carry out number carry at every registration, and carries out creation issue, The register was made to connect with the game composition which carries out acquisition competition of the prize made to announce on an advertisement screen by two or more customers, the parent-and-child game equipment configuration which can be enjoyed by parent and child, and various functions [, such as carrying out the game bet of the change fraction frame at the time of settlement of accounts, and making profit and loss carry out liquidation processing etc., ] type composition.

[0015]

[Function] The sum total of the weight of the goods which were purchased and registered to the receptionist information setup of the AUW of purchased goods according to invention according to claim 1 surely considers as a match, it is made to compare, and the correction of operation is judged in this goods weight comparison operation, and if there is no execution of registration further, the unjust ellipsis action of registration will be made to prevent in the consensual-validation operation by which the weight of goods is not totaled. Furthermore, it works so that the random number value of the measurement information when carrying out goods \*\*\*\* may stabilize measurement information during a run of a metering installation in a metering installation, and exact measurement information is acquired. Furthermore, when run reading of a metering installation carries out a read error, this error signal works an official's in charge calling device with respect to the control section of a point by return.

[0016] Work of a signal which completion of registration was checked by coincidence of goods weight comparison, and checked work of this signal and completion of settlement of accounts about the claim 2 when a security setup of the card was carried out as a customer's personal information at a settlement-of-accounts means When the conditions of which a security setup is canceled are satisfied, this condition is disregarded further and a register place is left, in order to carry out the alarm of the security abandonment by the circuit connection by security setup, and circuit connection by human body detection release, this circuit carries out the work which supervises security.

[0017] In a claim 3, it works as a comparison means in the paddle the actually read information and whose goods which the metering installation was made to carry out a \*\*\*\* run correspond, and collates on the same screen.

[0018] In a claim 4, it is specifying the goods unit price of a store and carrying out a storage setup as a success-in-an-election number, and this lottery number works as a success-in-an-election comparison means to operation registration goods unit price information, and a success-in-an-election probability setup can operate it free.

[0019] Whenever the display of the success-in-an-election number currently displayed on the advertisement screen works \*\*\*\*\* to a customer, makes an advertisement screen observe, purchases the number of \*\* which cast lots in lot number creation of the lot number creation machine with which a register is equipped further and checks registration in a claim 5, in order to make it work as a shift signal Since the digit list of the lot number is carried out as a setting, it is constituted and is announced by the receipt, the 2nd advertisement screen will be observed by collating with this lot number and the success-in-an-election number of a screen announcement.

[0020] In a claim 6 If the means to which the information on a prize of \*\* and advertiser offer is made to input externally, and carries out a screen display, this information is made to transmit to two or more register equipments further, a short-time setup is carried out, it considers as a target, and target practice of this target information is carried out is made to react to start of the metering installation at the time of registration of a register and a signal is fired, this signal will work to target practice to a target, and a competition game will be performed.

[0021] In a claim 7, since the number information of game operating points generated in operation of a main phone is canceled in the error of registration operation of the defeat mark which performed the work which makes child game equipment drive, and carried out service addition further, a regrettable feeling is given to parent and child, and this cancellation function works so that generating of an operation error may be prevented.

[0022] About a claim 8, since the multiplication of the change fraction is carried out by success in an election for a setting scale factor, curiosity and \*\*\*\*\* work to a customer, and game-interest is given to the settlement-of-accounts section.

[0023]

[Example] A drawing explains the example of this invention. First, this whole system composition arranges two or more cash register equipments in parallel, as shown in a view 2, it makes a customer do vicarious execution operation of the goods bar code reading registration operation of this register, it arranges a salesclerk to the malfeasance surveillance of this registration operation run lane, and trouble correspondence officials in charge, such as a read error, sets a registration proxy to C in a view 2, and sets a correspondence official in charge to D. A counter 31 is a compound institution and are different-species business receptionist counters, such as a tourist guidebook. The reading run metering installation 1 is made to \*\*\*\* goods 6, and departs from A hands of Customer C. Make the B point made to project to the position which is carried out in scanning reading in the reading registration mechanism 2, is run further the read station region of this registration mechanism,

and can carry out the sight check of the goods to an official in charge turn up, and it is set in this distance. When a read error occurs, a metering installation 1 stops at Point B by return, an official in charge is made to call in the calling device of the control section concerning this turning up point, and an official in charge works reading reprocessing etc. in the trouble corresponding point 5.

[0024] These processings are carried out, and a metering installation 1 returns to A points, and Customer C takes out goods from a metering installation, and contains goods to the direct shopping bag body 36. this shopping bag body 36 is supported to an executive state -- not having -- settlement of accounts -- nothing -- \*\*\*\*\* - - it is put on the release state so that things may be made However, a security setup is carried out by making a customer card into a settlement-of-accounts means at the time of a receptionist so that an alarm may operate when it \*\*\*\*\* without paying, and this action may be revealed.

[0025] Make it react automatically at the time of start of the metering installation 1 of the above registration operation, game equipment 4 is made to drive, and registration operation is performed by the game feeling target. When a game scores by this reaction drive, it has judged by the check of reading registration of the effective invalid of this score, and exact operation in which generating of an error of registration operation was made to prevent is made to enforce strictly.

[0026] Furthermore, in order to be an onerous game, to make a success-in-an-election prize offer from an advertiser and to gain this prize, it is made for this game equipment to make registration operation perform in \*\*\*\*, and further, it displays a success-in-an-election announcement means on an advertisement screen, carries out medium application of the degree of attention of a game, and is generating the impact of advertising. It is the scene where the customer (C) by whom guides generating of this impact of advertising, was made to install the receptionist guidance counter 31 which carries out receptionist business about this advertisement, and was made to consider as a receptionist member (D), and advertisement guidance was done is given about advertisement. Since the profit of advertisement business is made in this work place and two or more vicarious execution registration lanes with one riding capacity can be managed, number curtailment can be realized by this system.

[0027] The above is register vicarious execution management of this invention, and outline explanation of an advertisement guidance operating system. If the customer card which a register vicarious execution visitor owns in a use receptionist if it explains concretely in a view 1 below is inserted into the card acceptance section 11, register equipment will be in a starting state and will start registration. If a customer lays the shopping basket 7 in the receptionist metering zone 8, goods AUW will be measured and a weight information value will be set as the setting section 30 as contrast information. In a metering installation 1, measure the weight of goods each at the time of reading registration, and sense having \*\*\*\*(ed) goods 6 to this metering installation 1, start A points and it is made to run a metering

installation, and the \*\*\*\* control section 13 detects arrival engagement of a metering installation at B arriving points, a signal is generated, and the gates 21 and 22 are made to carry out a simultaneous input so that it may be below in agreement with this setting information.

[0028] If stabilize disorder of measurement information, consider as exact information, it is made to input into the gate 21, a goods bar code is scanned by the scanner of the registration mechanism 2 during a run and reading registration is made during the run for A points and these B points, the acknowledge signal will be inputted into the gate 21, the gate will open, goods weight information will be sent to the accumulating-totals section 12, and weight information will be totaled. Simultaneously, a registration-confirmed signal is reversed at the inverter gate, the gate 22 is closed, an arrival detecting signal is inputted into the \*\*\*\* control section 14, \*\*\*\* control is carried out, and a metering installation carries out \*\*\*\* feedback and returns to the B point.

[0029] When a read error occurs during the above-mentioned reading run, it passes through the gate 22 in the state of not being reversed, and is inputted into the trouble generating call section 15, and the arrival detecting signal of a metering installation 1 generates ringing tone, is further inputted into the \*\*\*\* control section 14, and stops \*\*\*\*. The official in charge D who received this call processes reading registration with the manual scanner with which took out goods from the metering installation and the trouble corresponding point 5 was equipped, he makes a \*\*\*\* halt cancel, does a \*\*\*\* run, and makes it return, and the measurement information on goods is also totaled by this manual registration.

[0030] Next, the start reaction section 20 with which the feedback point A was equipped is equipped with the function to recognize start and feedback of a metering installation, detects start of a metering installation, generates a signal, is made to input into game equipment 4, and carries out a game drive. this reaction feeling — target practice — when operation feeling is produced and a game score is after this operation, the score information is made to set to the score set section 17, and it waits for the input of the acknowledge signal of purchase registration, judges with it being effective at the gate 23, and score accumulating totals are carried out at the score accumulating-totals section 16

[0031] Since it becomes official-in-charge call processing when a read error occurs, a score cancellation signal input is carried out by the trouble corresponding point 5, clear [ of the score information on the set section 17 ] is carried out, and it is canceled. This means is the function prepared since a customer therefore had a regrettable feeling in this cancellation and exact reading operation was performed.

[0032] Next, if purchase registration is completed, information comparison with the sum total information on the weight information accumulating-totals section 12 and the above-mentioned receptionist weight setting section 30 will be performed, a coincidence signal will be inputted into card acceptance equipment 11 from a comparator 18, and it will stand by in the state of waiting for execution of

settlement of accounts. Next, when settlement of accounts is performed, a settlement-of-accounts acknowledge signal is inputted into standby of a weight comparison coincidence signal, the card return mechanical component 63 carries out a return drive, security is canceled, the card security support switch 64 \*\*\*\*, and a supervisory circuit E is made to intercept, as shown in a view 9. Further, during human body detection, as for this security support, the supervisory circuit E which forms this support interposes the alarm 65 and the circuit switch 66, and opening-and-closing control is carried out by the human body detector 67, and this switch 66 has [ this supervisory circuit E is intercepted, and ] the composition that a circuit is closed, when a customer leaves a register place. When a card is abandoned without a customer's paying, and a register place is left, Circuit E is formed completely, and an alarm 65 starts and it is made to pronounce. A card is set up as security by the above control, it does not manage so that settlement of accounts may be performed, and by this function, surveillance support of the shopping bag body is not carried out, but a takeout of goods is prevented also for \*\*.

[0033] Next, arrangement of the register in this invention is arranged by about ten sets of arrangement, is making the model from which a game function differs, respectively so that liking of a customer may be suited connect with register equipment, and can choose a game machine kind now freely. Next, if the game equipment connected with a register is explained according to a model, it is \*\* game equipment to a view 3. The address is made to specify alternatively by making the unit price of specific goods into a success-in-an-election number. Make it memorize in mixing, make the address operate sequentially, and it is made to output as lot information into a blank number. It is made to latch in the input of a signal and the number of \*\* is carried out. it calls in in the lot number information set section 44 one by one, and is made it -- making -- the target practice of the start reaction section 20 -- The goods unit price information registered according to this lottery number and the reading registration mechanism 2 The number of \*\* is carried out to the registration unit price set section 32, a comparator 34 is made to compare and the numeric value of information in agreement is made into score information. on Screen 4 of advertisement equipment A display announcement is made simultaneously with a success-in-an-election message, an announcement interest is given to a customer, and the effect which is made to observe the content of a prize which an advertiser offers further, and impresses advertisement strongly is generated.

[0034] Next, advertisement is displayed on an advertisement screen and the game equipment shown in the 4th view is the content of a prize of advertiser offer. A register and opposite are made to install advertisement equipment in the target composition which indicates by the success-in-an-election number, makes an operation interest and \*\*\*\*\* stimulate, and makes positive registration operation guide. Make it conscious of this success-in-an-election number currently displayed, purchase, and registration is made to operate it. in the dispatch input of the start

reaction section 20 of this operation. Make the number information on the number generating section 37 latch, carry out the number of \*\*, and the registration-confirmed signal of the registration mechanism 2 is made into a shift signal. Shift the number information of \*\* on a shift register 40, and make it shift at every registration execution, and make a lot number group constitute, it is made to register according to a lot program to the storage section 38, and the lot number creation machine which publishes a lot number ticket with receipt issue equipment 35 by completion of registration operation is made to have to two or more register equipments. A customer collates the lot number group of this receipt with the success-in-an-election number of the above-mentioned advertisement screen, and checks this \*\*, and the content of advertisement is strongly impressed with this check means.

[0035] Next, \*\* game equipment makes screen 4 upper case of advertisement equipment display the content of advertisement, displays the number of register equipment on the middle, makes the lower berth announce the prize information on advertiser offer intermittently, and carries out screen quiescence of this information for several seconds, and the 5th view is made to make it a target, and is made it to carry out a sense of rivalry to two or more customers. Furthermore, make it input into the gates 24, 25, and 26 which equipped each register equipment with this information through the bus 61 in short time, they are made to consider as a target, and it is made to set to them. It is in agreement with the information which target practice was made to operate this target information to the goods \*\*\*\* timing to a metering installation, was made to carry out the gate input of this reaction signal, and was made into the standby target. When won, this target information passes through the gate, makes information record on the receipt issue section 35, starts the register number generator 41 simultaneously, and a success-in-an-election announcement is made as a prize acquisition register number through a bus 62 at the register number display 46 in register number information. In acquisition of this prize, emulation starts mutually, and operation volition is evoked.

[0036] Next, the composition of the game equipment shown in a view 6 is game equipment operated by parent and child, and makes a customer parents. Make it react to start at every start of the metering installation 1 of purchase registration operation, and make a signal input into the mark generator 48, and judge with it being effective at the acknowledge signal of registration of the number of game operating points which carried out an adjustment setup, child game equipment 43 is made to supply mark, and the game of the child can be carried out in this amount of mark. Two or more sets of this child game equipment are arranged, it makes this child game equipment 43 connect through the connection channel 47 with which a main phone is equipped corresponding to a child's selection, and makes a mark transfer bus form. Furthermore, whenever purchase registration of a main phone is checked and it supplies mark, this frequency is made to input into a call meter 45, frequency calculation is carried out as negative mark, these defeat mark cancel by operation of

the trouble corresponding point 5 in generating of a customer's read error, and it is \*\*\*\*\*.

[0037] These defeat mark are supplied in the input of the coincidence signal of the comparator 18 of a goods weight as defeat mark at the time of completion of registration operation, and a supplementary service is carried out so that parents can do during the work of settlement of accounts etc. as for a game. A regrettable feeling arises to parent and child, by cancellation of these mark, parents purchase, a child makes demands on them for operation exact to registration, and in order that parents may meet the demand, exact registration operation is performed.

[0038] Next, it is a game setup which the composition of the game equipment of the 7th view makes profit and loss count, carries out liquidation processing of the fraction of the small sum which carried out amount-of-money limitation of the 2 figures, such as the fraction frame of the change generated at the time of settlement of accounts, for example, 85 yen, and 30 etc. yen, by game operation, and this game processing is performed, or the country is made by a customer's free choice, and enjoys profit and loss in a scale-factor game.

[0039] For example, when a settlement-of-accounts fraction is 65 yen and a customer wants to carry out game bet processing, it is. Call these 65 yen and it is made to call and set to the calculation section 51 by operation of a button. When the one [ 10 times the scale factor of this ] specification switch 56 is chosen and pushed, scale-factor partition LGT 52 of the scale-factor control section 54 and one LGT light up. The rotation game object 55 which arranges this lighting 52 carries out a rotation drive, and a drive is stopped after fixed rotation. When lighting 52 engages with the success-in-an-election detecting element 53 by subsequent surplus power halt and lighting is detected Pass the gate 27 for the control signal of the scale-factor control section 54 in the input of the detecting signal, make it input into the scale-factor information generating section 60, information is made to input into the calculation section 51 10 times, multiplication is carried out to 65 yen which is carrying out a call setup, 650 10 times as many points as this are displayed on display 57, further, a receipt is made to print and mark issue is carried out.

[0040] When failed and defeated in this bet liquidation, clear [ of the call fraction frame ] is carried out, and confiscation processing is carried out. Furthermore, one piece turns on this scale-factor control section 54 by one 10 times the scale factor of this, and it responds to two pieces by 5 times, it responds to \*\*\*\* like three pieces by double precision, and the rotation game object 55 is made to constitute the degree of success-in-an-election difficulty.

[0041] If an octavus view explains customer operation action surveillance, it will set at a point by return. Next, the state of goods etc., The surveillance camera 3 is made to install in the point B point by return besides the stand-in bar code being stuck or supervising country check directly in surprise during an official's in charge work. For example, goods image information, The tradename information registered by the reading registration mechanism 2 is made to input into a mixer 58, and carries

out an image processing, on Screen 4 on the upper case A goods configuration, Display a tradename on the lower berth, collate the information on the vertical stage, a collating means to check the coincidence and inequality is made to have, and this collating unit is what the official in charge had as a back monitoring function at the guidance counter 31 in dealing with customer explanation. It is and the screen is furnished to the counter 31. Furthermore, in this collating means, when there is information which carries out an inequality, for example, when expensive goods are displayed on the goods of an upper case and the cheap reading registration tradename of a price is displayed on the lower berth, a cuff of goods can be stopped by operation of the correspondence switch with which this screen was equipped, and goods registration information can be reconfirmed.

[0042]

[Effect of the Invention] By invention of a claim 1, by the simple vicarious execution work which the goods to a metering installation are made to \*\*\*\*\*, in order to make the error of registration operation process by an official's in charge call,-izing can be carried out [ \*\*\*\* ] in a customer operation burden, and exact registration operation is performed by the score cancellation function in the game equipment of operation burden compensation.

[0043] In invention of a claim 2, since the \*\*\*\*\* receipt of the goods after registration can be carried out at a direct bag body in order that a security setup of a customer card may work as a monitoring function of settlement-of-accounts execution, it is not necessary to carry out the surveillance restraint of the shopping bag body specially, \*\*\*\*\* of the goods from a shopping basket object to a shopping basket object is omitted, and the surveillance of registered goods can be omitted.

[0044] In invention of a claim 3, the difference with the tradename of registration information and object goods can collate on the same screen, and camouflage maneuvers of a customer's stand-in bar code etc. can be discovered.

[0045] In invention of a claim 4, can make an advertiser able to offer offer of a success-in-an-election prize, the prize acquisition is made to expect, a game feeling target can be made to operate operation of purchase registration, and since this success-in-an-election probability setup chooses from the goods of a store and it can set up, a setup of probability [ as he pleases ] can be performed. For example, the impact of advertising can be raised by setting up the unit price of the goods under advertisement.

[0046] In invention of a claim 5, the degree of success-in-an-election difficulty can be freely set up by fluctuating a lot number number of digits, an advertiser can be made to be able to offer the prize of a large sum, and registration operation can be performed aggressively.

[0047] In invention of a claim 6, two or more customers can be made to be able to gain competitively the prize which an advertiser offers, and the impact of advertising which centralizes two or more customers on an advertisement screen can be generated. The impact of advertising generated by coalesce with the advertisement

equipment of a more than and game equipment is made to guide, the business about this advertisement is prepared as a compound institution, the profits by receptionist business are produced, and customer service which received offer of a prize from the advertiser further can be realized.

[0048] In invention of a claim 8, registration operation can be performed to shopping in parent and child, enjoying a game by parent and child, and registration operation of parents is further performed correctly by the cancellation function of defeat mark.

[0049] It is work with processing of the change at the time of settlement of accounts troublesome for both, and liquidation processing of this problem can be carried out in game, a large amount of feeling of gain can be larger than the feeling of loss of a small sum, and game-interest can be made to be further raised in invention of a claim 8.

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[Translation done.]

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**DESCRIPTION OF DRAWINGS**

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**[Brief Description of the Drawings]**

[Drawing 1] They are a goods registration mechanism concerning this invention, and the block diagram showing the connection composition of game equipment.

[Drawing 2] It is a \*\*\*\*\* block diagram about the embodiment of this invention.

[Drawing 3] It is the success-in-an-election determination functional block diagram which was made to start a goods registration mechanism and which made the goods unit price comparison information.

[Drawing 4] It is the functional block diagram which equipped the register with the lot number creation machine to the announcement success-in-an-election number in an advertisement screen made to apply to a goods registration mechanism.

[Drawing 5] It is a \*\* block diagram about the game composition which was made to relate to a goods registration mechanism and which makes the announcement of prize offer gain with two or more registers.

[Drawing 6] It is a \*\* block diagram about the composition of the parent-and-child

game equipment made to apply to goods registration.

[Drawing 7] It is the block diagram which was made to start the settlement-of-accounts section and in which showing the game liquidation processing facility of a change fraction.

[Drawing 8] It is \*\*\*\*\* about the goods actual thing made to apply to the turning up point of a reading run metering installation, and a registration tradename collating means.

[Drawing 9] It is the block diagram showing a customer card security setting up function.

[Description of Notations]

1 Metering installation 30, the receptionist weight setting section 54, scale-factor control section

2 Goods registration mechanism 31, guidance counter 55, rotation game object

3 Surveillance camera 32, the registration unit price set section 56, scale-factor specification switch

4 Advertisement screen 33, the lottery information-storage section 57 Display

5 Trouble corresponding point 34 Comparator 58 Mixer

6 Goods 35, the receipt issue section 60, the scale-factor information generating section

7 Shopping basket 36, shopping bag body 61, 62, bus

8 Receptionist metering installation 37, the number generating section 63, card return mechanical component

9 Rail object 38, the lot number group storage section 64, security support switch

10, the settlement-of-accounts section 40 Shift register 65 Alarm

11, the card acceptance section 41, register number generator 66, circuit switch

12, the weight information accumulating-totals section 43, child game equipment 67, human body detector

13, \*\*\*\* control section 44, the lot number information set section

14, \*\*\*\* control section 45 Call meter

15, the trouble correspondence call section 46, register number display

16, the game score accumulating-totals section 47, connection channel

17, the score information set section 48, mark generator

18 Comparator 50, change fraction display

20, the start reaction section 51, the calculation section

21, 22, 23, 24 52, scale-factor partition LGT

25, 26, 27, 28 53, success-in-an-election detecting element

29 Gate

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[Translation done.]

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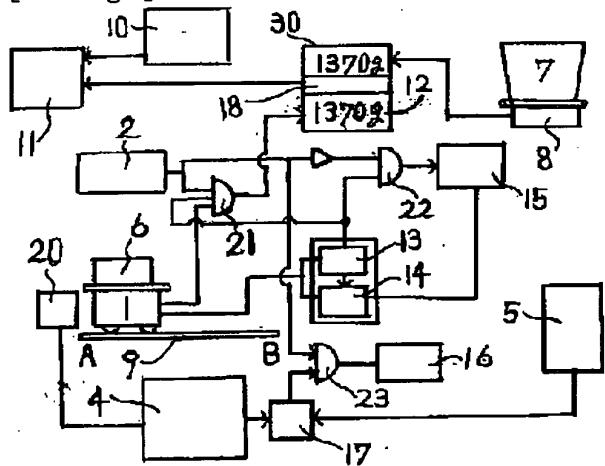
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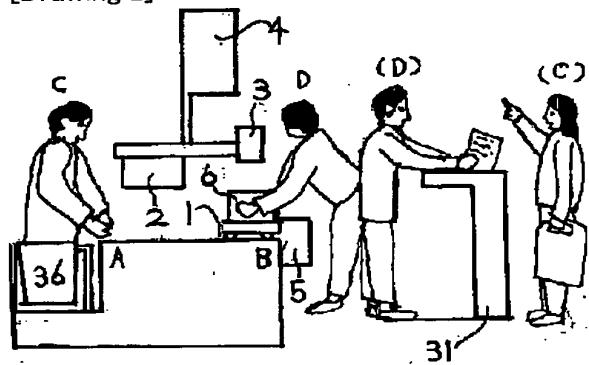
### DRAWINGS

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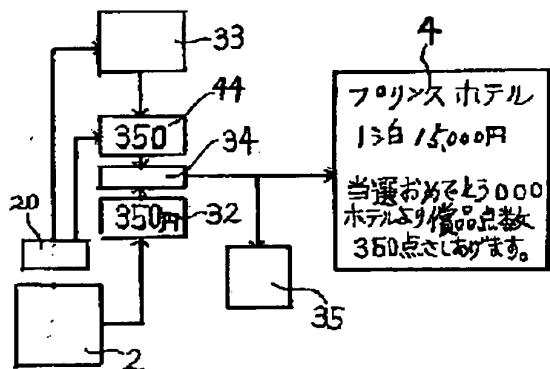
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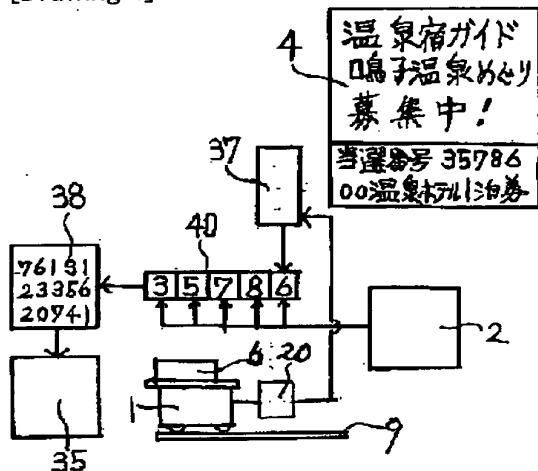
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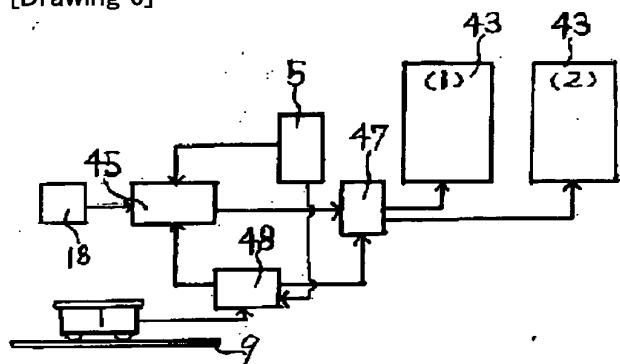
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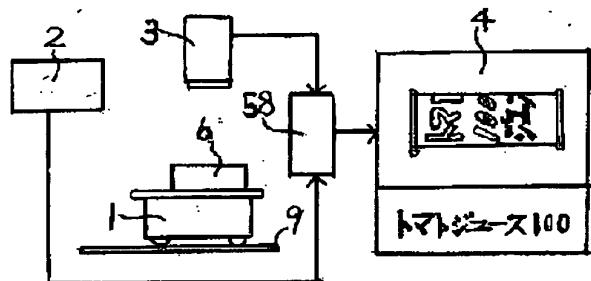
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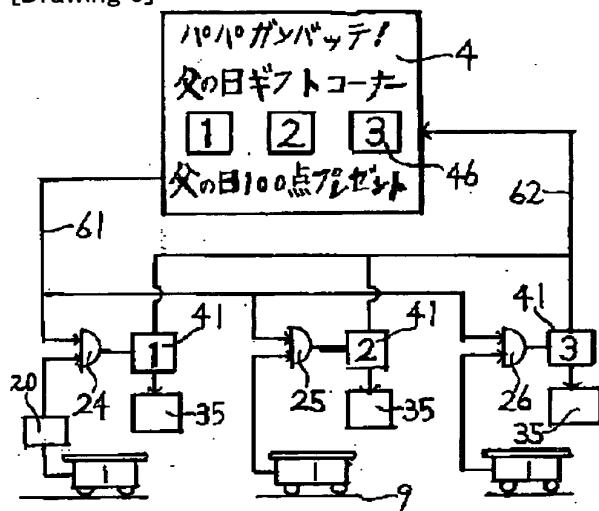
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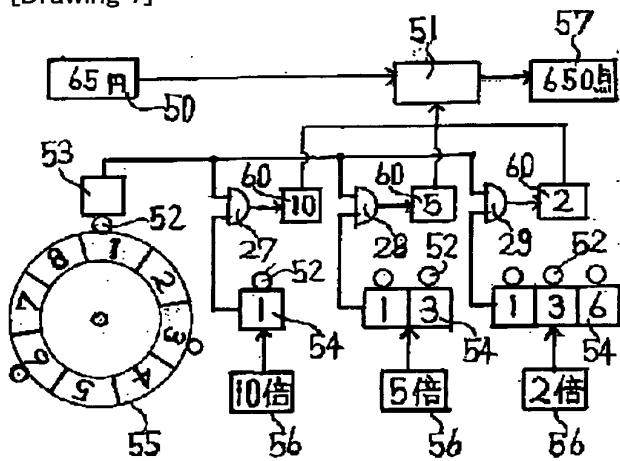
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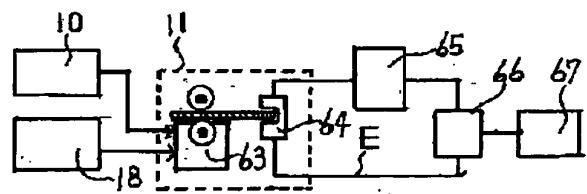
[Drawing 5]



[Drawing 7]



[Drawing 9]



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[Translation done.]